

LAZEYEVA, G.S.; PETROV, A.A.; FEDOROV, V.V.

Spectroscopic determination of the isotopic composition of
nitrogen. Vest. LGU. 18 no.16:56-61 '63. (MIRA 16:11)

FEDOROV, V.V.; KULIKOV, M.Yu.

Catch of *Lampanyctus jordani* Gilbert in the southeastern part
of the Bering Sea. Dokl. AN SSSR 157 no.5:1243-1244 Ag '64.
(MIRA 17:9)

1. Tikhookeanskiy institut rybnogo khozyaystvz i okeanografii.
Predstavleno akademikom Ye.N. Pavlovskim.

L 33950-65 EPA(s)-2/ENT(m)/EPY(n)-2/EMA(d)/EPR/EMP(t)/EWP(b) Pa-4/Pt-10/Pu-4
LIP(c) HW/JD/W/JG

4C

ACCESSION NR: AP4049500

S/0128/64/000/011/0037/0039

48

AUTHOR: Bendarskiy, L. S. (Engineer); Byatrov, A. M.; Vasil'yev, N. V.;
Gorelikov, V. D.; Danilov, V. M.; Divinskiy, Yu. L.; Yermolayev, V. A. (Engineer);
Kosyakov, V. M.; ~~Feodorov, V. Y.~~ (Engineer)

13

TITLE: Obtaining high-grade castings from magnesium alloys by filtering the liquid metal

SOURCE: Liteynoye proizvodstvo, no. 11, 1964, 37-39

TOPIC TAGS: magnesium alloy, magnesium base alloy, foundry technology, alloy casting, metal filtration

ABSTRACT: A method of obtaining high-grade castings from magnesium alloys by filtering the liquid metal was investigated. The effectiveness of filtering liquid alloy ML5 and the effect of filtration on the chemical composition, mechanical properties and structure of the alloy were determined. The investigations showed that there are no flux and slag inclusions in the fractures. The author concludes that defects from flux and slag inclusions are reduced by a factor of 12-15, and final flow is reduced by a factor of 7-8. The optimum ratio between the total area of grid openings and the total area of the cross section of the risers should be no less than 5:1. The recommended height of the filter is 60-80mm. Orig. art. has: 7 Corr./2 figures and 1 table.

FEDOROV, V.V.; KLEPIKOV, N.P.

Planning of experiments discriminating between various curves.
IAd. fiz. 1 no.6:1032-1034 Ja '65. (MIRA 18:6)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo uni-
versiteta.

ZOBS, V.Yu.; FEDOROV, V.V.

Effect of the water-cement ratio on the permeability of cement stone at high pressures and temperatures. Izv. vys. ucheb. zav.; neft' i gaz 3 no.6:35-37 '65. (MIRA 18:7)

1. Groznenskiy neftyanoy institut.

FEDOROV, V. V.

[Generation of periodic pulse trains with a high pulse repetition frequency using harmonic summation] Formirovanie periodicheskikh posledovatel'nostei impul'sov s bol'shoi chastotoi sledovaniia posredstvom slozheniia garmonik. Moskva, In-t tehnnoi mekhaniki i vychislitel'noi tekhniki AN SSSR, 1964. 55 p. (MIRA 19:1)

FEDOROV, V.V.; BABAYAN, O.A.

Reappraisal of the equipment in cotton industry and setting
of norms for its amortisation. Tekst.prom. 19 no.8:7-9
Ag '59. (MIRA 13:1)

(Cotton machinery)
(Cotton manufacture--Accounting)

FEDOROV, V.V., starshiy nauchnyy sotrudnik

Characteristics of the expansion of capital assets in the textile industry. Tekst.prom. 21 no.9:35-37 8 '61. (MIRA 14:10)

1. Tsentral'nyy nauchno-issledovatel'skiy institut khlopchatotumashnoy promyshlennosti.

(Textile industry--Equipment and supplies)

(Textile industry--Accounting)

FEDOROV, V.V., starshiy nauchnyy sotrudnik

New norms of the amortization of capital assets in the textile industry. Tekst.prom. 21 no.12:5-8 D '61. (MIRA15:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut khlopchatobumazhnoy promyshlennosti.
(Textile industry--Accounting)

FEDOROV, V.V.

The clothing factory of Zlatoust is a construction project of
the seven-year plan. Shvein.prom. no.3:10-11 My-Je '62.

(MIRA 15:6)

(Zlatoust—Clothing industry)

IVANOVA, M.N.; FEDOROV, V.V.; FARFENOVA, Z.S.

Development of differentiated norms of amortization deductions
for technological equipment in the cotton industry. Nauch.-issl.
trudy TSNIKHBI '60 [publ. '62]:285-319.

(MIRA 18:2)

FEDOROV, V.V.; TITKOV, A.M.

Complete mechanization of production processes for winning and transporting peat and further improvement of machinery and lowering of production costs. Torf. prcm. 37 no.5:19-20 '60.
(MIRA 14:10)

1. Shaturskiy torfotransport. Mosoblssovnarkhoza (for Fodorov).
2. Torfopredpriyatiye Osanovo-Dubovoye Mosoblssovnarkhoza (for Titkov).

(Peat industry)

FEDOROV, V.V., kand.tekhn.nauk

Costs and equipment reorganization in peat transportation. Torf.
prom. 39 no.3:3-8 '62. (MIRA 15:4)

1. Shaturskoye transportnoye upravleniye.
(Peat--Transportation)

FEDOROV, V.V., kand. tekhn. nauk; BOMBIN, I.P., inzh.

Transportation of peat fertilizers and litter. Torf. prom. 40
no.6:5-9 '63. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut torfyanoy
promyshlennosti.

24(7)

AUTHORS:

Ivanova, T. F., Trentovius, M. E., Fedorov, V. V.

SOV/48-23-9-31/57

TITLE:

On the Problem of the Application of the Spectrographical Isotope Method for the Determination of Hydrogen

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 9, pp 1120 - 1123 (USSR)

ABSTRACT:

In the present paper a variant of the spectral isotope apparatus described by A. N. Zaydel' and Petrov (Refs 1-4) is used. This apparatus consists of a diffraction spectrograph of the type DS-1, a photoelectric recording device, and a vacuum system, the principles of which are shown by figure 1, and which generates a pressure of $5 \cdot 10^{-3}$ torr. The corrections to the data obtained by the authors and by A. N. Zaydel' are then dealt with in detail, and the measurement values obtained from ten tests are compared in table 1 for three different pressures. It was found that the correction factor increases with increasing pressure. Table 2 shows the results obtained by the determination of hydrogen in three steel alloys. This method may be employed for the purpose of investigating the hydrogen distribution over the cross section of forged work-

Card 1/2

On the Problem of the Application of the Spectro-
scopical Isotope Method for the Determination of Hydrogen

SOV/48-23-9-31/57

pieces of degased Cr-Ni-Mo-steels. Further, the results obtained by a comparison of the here determined hydrogen values with the plastic properties of the metal are given. The diagrams of figure 3 show the distribution of the hydrogen content depending upon the distance between the investigated part and the surface. An increase of the hydrogen content from the periphery to the center was found. The introduction of this method in work laboratories meets with difficulties because of the necessary equipment with non-standardized devices, and experiments were undertaken with a view of employing this method with a standard equipment. There are 3 figures, 2 tables and 4 Soviet references.

Card 2/2

IVANOVA, T.F.; TRENTOVIVUS, M.M.; FEDOROV, V.V.

Use of the spectral-isotopic method of determining hydrogen. Trudy
kom.anal.khim. 10:196-204 '60. (MIRA 13:8)
(Hydrogen--Analysis)
(Deuterium)

IVANOVA, Tamara Fedorovna; TAENTOVIVS, Mariya Eduardovna; FEDOROV, Valentin
Vasil'yevich; TYUMENEVA, S.T., inzh., red.; FREGER, D.P., red. In-
va; BELOGUROVA, I.A., tekhn. red.

[Industrial apparatus for the determination of hydrogen in metals by
the spectral-isotopic method] Zavodskoi variant ustanovki dlia oprede-
lenia vodoroda v metallakh spektral'no-isotopnym metodom. Leningrad,
1961. 18 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Ob-
men peredovym opytom. Seriya: Kontrol' kachestva produktsii, no.2)
(Metals--Hydrogen content) (Deuterium) (Spectrum analysis)

FEDOROV, V.V., fel'dsher (g.Liski Voronezhskoy oblasti)

A simple and convenient way of preserving sterility of the needle.
Med. sestra no.10:27 0 '54. (MIRA 7:12)

(SYRINGES

needles, preserv. of sterility, simple way)

MEOROV, V.V. (Liski, Voroneshskaya oblast')

Faster way to sterilize syringes. Med.sestra no.4:26 Ap '55.

(SYRINGES)

(MIRA. 8:5)

FEDOROV, V.V., fel'dsher (Voroneshskaya oblast')

New method for the introduction of a duodenal probe. Med.vestn
15 no.3:23 Mr '56. (MLRA 9:6)

(MEDICAL INSTRUMENTS AND APPARATUS)

FEDOROV, V.V., fel'dsher (g. Muki Voronezhskoy oblasti)

Modest people in a noble profession. Med.sestra 17 no.5:42 My'58
(MIRA 11s6)

(MARKOVA, ZOIA TIKHONOVNA)

YEDCROV, V.V., fel'dsher (Voronezhskaya oblast').

~~Method for applying a rubber tourniquet;~~ Med.sestra 17 no.12:28-30
D'58 (MIRA 11:11)

(BLOOD---TRANSFUSION)

FEDOROV, V.V., fel'dsher

Sterilization of rubber gloves in dispensaries. Med.sestra
18 no.2:41 F '59. (MIRA 12:2)

1. Bol'nitsa vodnikov, Voronezhskaya oblast'.
(MEDICAL INSTRUMENTS AND APPARATUS--STERILIZATION)

FEDOROV, V.V., fel'dsher (g. Liski Voronezhskoy oblasti)

Innovator's proposal, Med.vestra 18 no.12;43 '59.
(MEDICAL INSTRUMENTS AND APPARATUS)

(MIRA 13:3)

FEDOROV, V.V., aspirant

Case of closed ruptures of the duodenum following abdominal injury.
Kaz. med. zhur. 41 no.3:72-73 My-Je '60. (MIRA 13:9)

Iz 1-y katedry hospital'noy khirurgii (zav. - prof. N.V. Sokolov)
Kazanskogo meditsinskogo instituta, na baze 1-y gorodskoy bol'nitsy
(glavvruch - Z.A. Sinyavskaya).
(DUODENUM—WOUNDS AND INJURIES)

FEDOROV, V. V.

"The Theory of the Mercury Vapor Vacuum Pump and a New High-Speed Pump," by F. Aleksandr. Reviewed by V. V. Fedorov, Uspekhi Fizicheskikh Nauk, Vol 34, No 1, 1943

FEDOROV, V. V.

PA 11/49742

USSR/Engineering
Soldering

Aug 48

"Soldering Metal and Ceramics in Vacuum," V. V.
Fedorov, 1 p

"Uspekhi Fiz Nauk" Vol XXXV, No 4

Refers to method previously described in "Uspekhi Fiz
Nauk" Vol XXXIII, No 2, 1947. Describes Bondley's
method in "Electronics" 1947, p 206.

~~SECRET~~

11/49742

FEDOROV, V. V.

PA 22/49129

USSR/Electricity
Lamps, Arc
Zirconium

Jan 49

"Zirconium Electric Bulbs," V. V. Fedorov, 2 pp

"Uspekhi Fiz Nauk" No 1

Unique properties of zirconium cathode arc lamps already discussed by G. N. Rokhlin (UFN, 31, 1, 1947). Fedorov summarizes recent work of Huxford and Platt (JORA, 37, 1, 1947).

22/49129

FELICROV, V. V., Cand Tech Sci — (dis) "Research and development of systems
for making filaments for luminous lamps suitable for mechanical evacuation,"
Moscow, 1960, 8 pp (Moscow Power Engineering Institute) (KL, 33-60, 146)

FEDOROV, Vladimir Vladimirovich; SKOBELEV, V.M., red.; BUL'DYAYEV, N.A.,
tekhn. red.

[Manufacture of fluorescent lamps] Proizvodstvo liuminestsentnykh
lamp. Moskva, Gosenergoizdat, 1963. 167 p. (MIRA 16:6)
(Fluorescent lamps)

FEDOROV, V. V.

PA 47/49T42

USSR/Engineering
Tracks, Railroad

Jan 49

"Temporary Tracks Laid During the Winter,"
V. V. Fedorov, Engr, 2 pp

"Turf Prom" No 1

Describes procedure in detail, with two diagrams.

47/49T42

MEMUKHIN, V.P., kandidat tekhnicheskikh nauk; FEDOROV, V.V., inzhener.

Spark extinguishing devices for narrow gauge steam locomotives.
Tof.prom. 31 no.5:5-9 '54.

(MLRA 7:8)

1. TSNII MPOS (for Memukhin) 2. Shaturskoye transportnoye upravleniye (Admin)

(Locomotive sparks)

FEDOROV, V.V., inzhener.

Experience in operating the electrified railroad section Bakshevo -
Lidino. Torf.prom. 31 no.7:8-10 '54. (MLRA 7:11)

1. Shaturskiy torfotransport.
(Moscow Province--Electric railroads) (Electric railroads--
Moscow Province)

FEDOROV, V. V.

FEDOROV, V. V. "Investigation of the Problems of Fire Safety on Railroad Lines in the Peat Industry." Min Higher Education USSR. Moscow Peat Inst. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya Letopis', No. 18, 1956,

FEDOROV, V.V., kand. tekhn. nauk

Electrified narrow-gauge railroads in the peat industry. Mekh. trud.
rab.11 no.12:21-23 D '57. (MIRA 11:3)
(Railroads, Narrow-gauge) (Peat--Transportation)

FEDOROV, Y.Y., inzhener.

Raising the efficiency of spark extinguishing devices. *Torf. prom.* 34
no.1:21-24 '57. (MLRA 10:2)

1. Shaturskoye transportnoye upravleniye.
(Locomotive sparks)

FEDOROV, V.V., kand. tekhn. nauk

Mechanization of labor consuming operations in the transportation
of peat. Torf.prom. 35 no.2:10-13 58. (MIRA 11:5)

1. Shaturskiy torfotransport.
(Peat--transportation)

GRACHEV, Viktor Anatol'yevich; STOYLIK, Mikhail Alekseyevich. Primal
uchastnye FADEYEV, V.G.; FEDOROV, V.V., kand. tekhn. nauk, retsen-
zent; MERKUSHEV, R.N., kand. tekhn. nauk, dotsent, red.; BORUNOV,
N.I., tekhn. red.

[Railroad transportation in the peat industry] Zheleznodorozhnyi
transport torfianoi promyshlennosti. Moskva, Gos. energ. izd-vo,
1960. 291 p. (MIRA 14:10)

(Railroads, Industrial) (Peat industry)

FEDOROV, V.V., starshiy nauchnyy sotrudnik

Determining economically advantageous schedules for the replacement of equipment. Tekst.prom. '23 no.1:6-9 Ja '63.
(MIRA 16:2)

1. Tsentral'nyy nauchno-issledovatel'skiy institut khlochatobumashnoy promyshlennosti (TSNIKkBI).
(Textile industry—Equipment and supplies;
Industrial management)

NASIEDOV, G.A.; FEDOROV, V.V.

"Transitional" fibers in the skeletal musculature of a frog.
Ark. anat., gist. i embr. 49 no.8:72-76 Ag '65.

(MIRA 18:9)

1. Institut evolyutsionnoy fiziologii imeni I.M. Sechenova
AN SSSR, Leningrad.

ZHUKOV, Ye.K.; VASIL'YEVA, V.V.; NIKOLAYEVA, Ye. N.; FEDOROV, V.V.

Evolution of functional properties of the skeletal muscles in mammals. Zhur. evol. biokhim. i fiziol. 1 no. 6:491-499 N-D '65.
(MIRA 19:1)

1. Laboratoriya evolyutsii dvigatel'noy deyatel'nosti Instituta evolyutsionnoy fiziologii i biokhimii imeni I.M. Sechenova AN SSSR, Leningrad. Submitted June 28, 1965.

BENDERSKIY, L.S.; BYSTROV, A.M.; VASIL'YEV, N.V.; GORELIKOV, V.D.
DANILOV, V.N.; DIVINSKIY, Yu.L.; YERMOLAYEV, V.A.; KOSYAKOV, V.M.;
FEDOROV, V.V.

Producing quality casting of magnesium alloys by means of
liquid metal filtration. Lit. proizv. no.11:37-39 N '64.
(MIRA 18:8)

FEDOROV, V.Ya., [deceased]

Determining the magnitude of the reactive e.m.f. commutation
in multilayer windings of electric machines. Sbor. nauch.
trud. EINIY 2:149-164 '62. (MIRA 16:8)

(Commutation (Electricity))
(Electric railway motors--Windings)

ACCESSION NR: AP4012590

S/0021/64/000/002/0220/0223

AUTHOR: Shvets', I. T. (Academician); Fedorov, V. Y.; Minyaylenko, M. O.; Banny*kov, A. I.

TITLE: Experimental study of the nonstationary temperature field in the rotor of a gas turbine

SOURCE: AN UkrRSR. Dopovidi, no. 2, 1964, 220-223

TOPIC TAGS: gas turbine, gas turbine temperature, gas turbine thermal stress, gas turbine starting temperature, gas turbine stopping conditions

ABSTRACT: Using the test assembly shown in Fig. 1 of Enclosure 01, the temperature field in the rotor of a gas turbine was investigated under the following operating conditions: normal start-up, start-up with hot rotor, and emergency start-up of a cold turbine.

1. Temperatures at the top of the blade reached 550 to 560C after 3 minutes in operating conditions 0 - 100 - 0. Temperatures at the bottom of the blades were 180 to 200C.

2. The maximum temperature difference (Fig. 2. of Enclosure 02) between the periphery and the hub of the turbine wheel reached 290C, 10 to 12 minutes after

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ACCESSION NR: AP4012590

start-up or 5 to 7 minutes after arriving at 100 percent load.

3. The maximum temperature difference between the periphery and the hub during start-up with warming at low rpm was 240 to 250C after 20 minutes.

4. The temperature gradients between the periphery and hub are considerably reduced with warming up at low rpm.

5. The maximum composite thermal stresses in the turbine rotor are -1600 (quick start-up and maximum gradient), -60 (quick start-up and constant temperature field), and -720 kg/mm² (normal start-up and maximum gradient).

On the basis of the obtained results it is possible to consider reducing the start-up time and to provide safe start-up and operating conditions for gas turbines.

ASSOCIATION: Insty*tut teploenergety*ky*, AN UkrRSR (Institute of Thermal Power Engineering, AN UkrRSR)

SUBMITTED: 17Jun63

DATE ACQ: 03Mar64

ENCL: 02

SUB CODE: AI, PR

NO REF SOV: 002

OTHER: 000

Card 2/AZ

L 00989-66 EMT(m)/EPE(c)/EPE(n)-2/T/EWP(t)/EWP(e)
ACCESSION NR: AP5020831

IJP(c) JD/JG/DJ
UR/0020/65/163/004/0900/0901

AUTHOR: Opalovskiy, A. A.; Fedorov, V. Ye.

TITLE: Thermal dissociation of molybdenum disulfide in vacuum

SOURCE: AN SSSR. Doklady, v. 163, no. 4, 1965, 900-901

TOPIC TAGS: molybdenum disulfide, thermal dissociation, solid lubricant

ABSTRACT: Thermal dissociation of molybdenum disulfide in vacuum has been studied in view of the scarce and contradictory data in the literature on this subject. The process was studied in a sealed quartz ampul evacuated to 1×10^{-5} mm Hg at up to 1300C. The ampul was placed so that one end containing the sample was in the furnace and the other end, slightly raised, remained outside and cool for collecting the dissociation product. Chemical and x-ray analysis revealed that thermal dissociation of MoS₂ in vacuum leads to the formation of Mo₂S₃. [SM]

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Inorganic Chemistry, Siberian Branch, Academy of Sciences, SSSR)

SUBMITTED: 15Jan65
NO REF SOV: 004
Card 1/1

ENCL: 00
OTHER: 006

SUB CODE: FP,TD
ATD PRESS: 4069

62501-65 EFF(n)-2/EWF(m)/EAG(m)/EWP(S)/EWP(t) IJP(c) RIM/JD/ST

ACCESSION NR: APJ021283

UR/00001651164100511637-164

AUTHOR: Opalovskiy, A. A., Pechov, V. Ye.

TITLE: Mixed molybdenum chalcogenides

SOURCE: AN SSSR. Doklady, v. 153, no. 5, 1965, 1163-1164

TOPIC TAGS: inorganic synthesis, molybdenum compound, molybdenum dichalcogenide, selenide, telluride, sulfide, mixed chalcogenide

ABSTRACT. New molybdenum compounds Mo_2S_3Se , Mo_2S_3Te , Mo_2Se_3S , Mo_2Se_3Te , Mo_2Te_3S , and Mo_2Te_3Se have been synthesized for the first time using the reaction:



where X and X' are different chalcogens. The starting materials, molybdenum sesquichalcogenides, Mo_2X_3 were prepared by direct synthesis from the elements, which was newly developed for preparing Mo_2Se_3 and Mo_2Te_3 . The reaction (1) was carried out

in the solid state. The new products were crystalline

and their corresponding dichalcogenides, MoX_2 . Lattices and structure of all mixed

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I. 63501-65

ACCESSION NR: AP5021283

chalcogenides were tabulated. Thus, the possibility was shown to substitute partially
with a polydenus dichalcogenide without significantly altering

FEDOROV, Ya. A.

Dissertation defended for the degree of Candidate of Historical Sciences at the
Institute of Ethnography imeni N. N. Maklukho-Maklay

"Origin of the Kумыks."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-115

FEDEROV, Ya.A., inzhener.

Vinyl plastic tubes for SPO fuses. Energetik 4 no.9:20 8 '56.
(Electric fuses) (Vinyl polymers) (MIRA 9:10)

FEDOROV, Yo.

Gyroscope in military science. Voen. znan. 25 no.3:7-8 Nr 149.
(Gyroscope)

FEDOROV, Ye., akademik

Meteorologists in an offensive. Grazhd. av. 21 no.12:18:19
D '64 (MIRA 18:12)

1. Nachal'nik Glavnogo upravleniya gidrometeorologicheskoy
sluzhby pri Sovete Ministrov SSSR.

L 10796-67 FSS-2/EWT(1) IJP(c) JGS/TT

SOURCE CODE: UR/9003/66/000/197/0005/0005

ACC NR: AN7003512

41

AUTHOR: Fedorov, Yo. (Academician; Chief)

ORG: Hydrometeorological Service SSSR (Gidrometeosluzhby SSSR)

TITLE: Weather satellites

SOURCE: Izvestiya, 21Aug66, p. 5, col. 1-3

TOPIC TAGS: meteorologic satellite, IR photography, cloud cover

ABSTRACT: A recent issue of Izvestiya shows a television picture of the cloud cover over western and central Siberia which was transmitted by the Soviet artificial satellite "Kosmos-122" on 26 July 1966. Much of the article is devoted to the importance and possibilities of meteorological satellites, but some specific detail is given. "Kosmos-122" makes use of the window of transparency 8-12 microns. Through this window it is possible to obtain pictures in the infrared during both daytime and nighttime. The satellite not only is equipped for taking cloud cover photography, but also for measurement of the intensity of outgoing radiation. Actinometric apparatus is carried for measuring the downward intensity of radiation in three bands. Measurements in the 0.3-3 micron range (visible light and the lower part of the infrared) make it possible to determine the intensity of reflected radiation.

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L 10796-67

ACC NR: AN7003512

The greater part (70-80%) is reflected by the clouds; the lesser part (30%) is reflected by the surface of the oceans. By studying radiation in the 8-12 micron band it is possible to estimate the temperature of the earth's surface or clouds visible from the satellite. Measurements of radiation in the 3-30-micron band make it possible to determine the total flux of heat energy from the earth and from the atmosphere into space (the article does not make it entirely clear what the possibilities of "Kosmos-122" are and whether some of these remarks apply to meteorological satellites in general or "Kosmos-122" in particular). Soviet scientists have developed methods for processing radiation measurements on electronic computers. Signals sent out by the satellite relating to the radiation situation arrive directly at an electronic computer. This computer compares the radiation measurements with data on the satellite trajectory, introduces necessary corrections and prints out the information on cards showing the global distribution of radiation intensity. The current source for "Kosmos-122" is large solar batteries. The above-mentioned apparatus is being tested on "certain satellites of the 'Kosmos' series". For the time being experimental meteorological information is being collected only for part of the "Kosmos-122" trajectory. Orig. art. has: 1 figure. [JPRS: 38,460]

SUB CODE: 22, 04, 14 / SUBM DATE: none

Card 2/2^{1/2}

FEDOROV, Ye. A.

FEDOROV, Ye. A., inzhener

Mechanization of the first turning and stacking of crumb peat for
drying. Trudy Inst.torf. AN BSSR no.2:114-126 '53. (MLRA 8:11)
(Peat machinery)

FEDOROV, Ye.A., inshener.

Testing caps of wood plastics in rectifying towers. Der. i lesokhim. prom.
2 no.8:30 Ag '53. (MLRA 6:7)

1. Syavskiy lesokhimicheskiy kombinat. (Distillation, Fractional)
(Wood, Compressed) (Metal, Substitutes for)

ПЕДЦАОВ, Ye. A.

"The Role of 'Hemoglobin' in Tubers of Leguminous Plants." Cand Biol Sci, Moscow
Order of Lenin Agricultural Acad imeni K. A. Timiryazev, Moscow, 1955. (XI, No 17,
Apr 55)

TRANS - U 8876, 20 Sept. 56

Pub. in - Mikrobiol, XXIV, No. 5, Sept-Oct 55

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended
at USSR Higher Educational Institutions (16).

FEDOROV, P.

DECLASSIFIED BY: [illegible] ON: [illegible]
EXEMPT FROM AUTOMATIC DOWNGRADING AND
DECLASSIFICATION IN ACCORDANCE WITH
E.O. 13526, PARAGRAPH 1.4

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000412630012-2

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000412630012-2"

FEDOROV, B. A.

Plant assimilation of sulfur dioxide from the air. Zh.
A. Medvedev and B. A. Fedorov. *Trudy 15, No 11,*
84-8 (1980). Exptl. verification was obtained by the
method of plants in solution.

FEDOROV, Y.A., inzhener.

Using stainless steel in acetic acid production. Der. i lesokhim.prom. 2 no.
12:26-28 D '53. (MIRA 6:11)

1. Syavskiy lesokhimicheskiy kombinat. (Acetic acid) (Steel, Stainless)

FEDOROV, Ye.A., inzhener.

Use of vinyl sheet tubing in the production of acetic acid. Der. 1
lesokhim, prom. 3 no. 6:29 Je '54. (MLRA 7:7)

1. Syavskiy lesokhimicheskiy kombinat.
(Tubes) (Acetic acid)

FEDOROV, Ye.A., inshener; CHEVILEVA, A.A., inshener.

Speeding-up the turnover of resin stills. Der. i lesokhim.prom.3
no.11:25-26 N '54. (MIRA 7:12)

1. Syavskiy lesokhimicheskiy kombinat.
(Distillation apparatus)

FEDOROV, Ye.A., inzhener.

Pump parts from faolite and vinyl plastic. Gidroliz. i lesokhim.
prom. № no.6:23 '55. (MIRA 9:1)

1.Syavskiy lesokhimicheskiy kombinat.
(Centrifugal pumps) (Plastics)

FEDCROV, Ye.A.

Plywood pipes for waste water sewage. Gidroliz. i lesokhim. prom. 8
no.4:24-25 '55. (MIRA 8:9)

1. Syavskiy lesokhimicheskiy kombinat. (Pipe, Wooden)

FEDOROV, Y. A.

Small tubes of waste vinyl plastic for SPO fuses.
Gidrolis. 1 lesokhim. prom. 9 no.8:27 156.

(MLRA 10:2)

1. Syavskiy lesokhimicheskiy kombinat.
(Electric fuses) (Vinyl polymers)

FEDOROV, Ye.A.

Problem of spreading block peat for the first stage of drying.
Trudy Inst. torf. AN BSSR 6:452-461 '57. (MIRA 11:7)
(Peat machinery)

FEDOROV, Ye.A.

Even spreading of peat with a peat spreader equipped with
a blade-type feeder. Trudy Inst. torf. AN BSSR 6:462-469 '57.

(MIRA 11:7)

(Peat machinery)

FEDOROV, Ye.A.

**Efficient discharge of pitch from tar stills. Gidrolis. 1
lesokhim. prom. 10 no.3:22-23 '57. (MLRA 10:5)**

**1. Syavskiy lesokhimicheskiy kombinat.
(Wood tar)**

FEDOROV, Ye.A.

AUTOMATIC apparatus for switching a centrifugal pump on and off. Gidroliz.
1 lesokhim. prom. 10 no.8:24 '57. (MIRA 10:12)

1. Siyavskiy lesokhimicheskiy zavod.
(Automatic control) (Centrifugal pumps)

AUTHOR: Fedorov, E.A., Engineer.

104-3-31/45

TITLE: Drainage device of vinyl plastic for cationic filters.
(Drenazhnoye ustroystvo kationitovykh filtrov iz vinyl-
plasta)

PERIODICAL: "Elektricheskiye Stantsii" (Power Stations), 1957,
Vol. 28, No. 3, p. 80 (U.S.S.R.)

ABSTRACT: The drainage systems of cationic filters must be made
of corrosion-resistant materials and the best material is
vinyl plastic No. 10. Such equipment that has been in use for
three years is described. It has operated very satisfactorily.
There are 2 figures.

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FEDOROV, Ye.A., inventor.

Step-by-step regeneration of cation filters leaving the cationite
in the regeneration solution. Elek. sta. 28 no.5:73-74 My '57.
(Feed-water purification) (MLRA 1016)

~~FEDOROV, Ya. A.~~

Test board for ammeters and voltmeters. Gidroliz. i lesokhim. prom.
10 no.6:27 '57. (MIRA 10:12)

1. Siyavskiy lesokhimicheskiy kombinat.
(Ammeter) (Voltmeter)

AUTHOR: FEDOROV, Ye.A. 20-3-7/46

TITLE: The Motion of a Plate of Infinite Span in the Neighborhood of the Free Surface of an Ideal Fluid of no Weight (Dvizheniye plastinki beskonechnogo razmakha vblizi svo'obodnoy poverkhnosti ideal'noy nevesomoy zhidkosti)

PERIODICAL: Doklady Akad.Nauk SSSR ,1957,Vol.116,Nr.3,pp.373-376 (USSR)

ABSTRACT: The author considers the motion of a plate of infinite width and infinite length in the neighborhood of the free surface of an ideal fluid of no weight. He considers flows for which the surface of the plate is flown around entirely or partially by the fluid as well as limit cases for which the burbling of free jets happens directly at the leading edge of the plate. The solution is obtained with the aid of classical methods of Kirchhoff. The author determines the function of flow, the course of the released jets, the pressure of the lifting force and the resistance. In 4 large figures the results for several angles of approach flow and several distances of the plate are given.

SUBMITTED: March 28, 1957

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FEDOROV, Ye.A., inventor.

Using the heat of exhaust and secondary steam. Prom. energ. 12 no.3:
№ '57. (MIRA 10:4)

1. Byure ratsionalizatsii i izobretatel'stva Syavskogo Lesokhimbina.

(Steam)

PHASE I BOOK EXPLOITATION

SOV/6584

Fedorov, Yevgeniy Aleksandrovich

Dvizheniye plastinki beskonechnogo razmakha vblizi svobodnoy poverkhnosti ideal'noy nevesomoy zhidkosti (Motion of a Plate of Infinite Span Near the Free Surface of a Perfect Weightless Fluid) Moscow, Oborongiz, 1958. 41 p. (Series: Moscow. Tsentral'nyy aero-gidrodinamicheskiy institut. Trudy, no. 711) Errata slip inserted. No. of Copies printed not given.

Ed.: B. S. Zobkov, Engineer; Ed. of Publishing House: T. B. Morozova; Tech. Ed.: I. M. Zudakin; Managing Ed.: A. S. Zaymovskaya, Engineer.

PURPOSE: The book may be used as a textbook by students in universities and schools of higher education which specialize in hydrodynamics, and by scientific workers dealing with hydrodynamical problems.

COVERAGE: The motion of an infinite span plate near the free surface of a perfect weightless fluid is analyzed with particular

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Motion of a Plate (Cont.)

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attention to cases of partial or total flow over the plate's upper surface and to limiting cases in which the separation of free jets takes place directly from the leading edge. The formulas given allow evaluation of the pressure in any point of the fluid of the plate's buoyancy, and of its submersion, and determination of the patterns of free jets and streamlines. It is demonstrated that analytical solutions may be obtained if four parameters are known; for single solutions, like those described in the numerical examples, it must be assumed that the flow along the cavity has no inflection points. Generally, the developed formulas may also be used disregarding the above assumption. There are four references, all Soviet.

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Length of plate and location of characteristic points on it	9

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FEDOROV, Ye., inzh.

Using floating oils. Prom. koop. 12 no.2:19 Y '58. (MIRA 11:1)

1. Byuro sodeystviya ratsionalizatsii i izobretatel'stva lesokhim-
kombinata, poselok Syava, Gor'kovskoy oblasti.
(Wood-tar)

FEDOROV, Ya.

Biological control Nauka i pered. op. v sel'khoz. 8 no.9:76-77
S '58. (MIRA 11:10)
(Australia--Cactus) (Australia--Rabbits) (Puerto Rico--Beetles)

YEDOROV, Ye.A.

**Additional recovery of wood chemical products. Gidroliz. i lesokhim.
prom. 11 no.8:25 ' 58. (MLRA 11:12)**

- 1. Syavskiy lesokhimicheskiy kombinat.
(Syava--Wood distillation)**

~~FEDOROV, Ye.A.~~

Recovering tar from residue oils. Godrolis. i lesokhin. prom.
11 no.1:23-24 '58. (MIRA 11:2)

1. Syavskiy lesokhimicheskiy kombinat.
(Wood tar) (Wood-using industries--By-products)

KAURICHIV, I.S., kand. sel'skokhozyaystvennykh nauk, dots.; FKOBOV, Ye.A.,
kand. biol. nauk; LI CHAN-VEY [Li Ch'ang-Wei], aspirant.

Nature of the transformation of phosphates during the temporary
restoration process in turf-Podzolic soils [with summary in
English]. Isv. TSKhA no.2:109-116 '58. (MIRA 11:6)
(Phosphates) (Podzol)

FEDOROV, Ye.A., Cand Tech Sci - (disc) . "Study of apparatus for
~~lifting~~ ^{lifting} post bricks from the ground and arranging them into a
drying pattern." Minsk, 1959. 24 pp (Acad of Sci BSSR. Department
of Phys-Math and Tech Sci), 100 copies (B1,30-52, 121)

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MOZHAR, I.V.; FEDOROV, Ye.A.

Shear and rolling resistance of cylindrical peat blocks from the surface of spreading fields. Trudy inst. torf. AN BSSR 8:199-206 '59.

(MIRA 13:12)

(Peat)

FEDOROV, Ye.A.

Efficient construction of frames of cars transporting wood.

Gidroliz. i lesokhim. prom. 12 no.6:17-18 '59.
(MIRA 13:2)

1. Syavskiy lesokhimicheskiy kombinat.
(Wood-using industries---Equipment and supplies)

FEDOROV, Ye.A.

Production of tar oils. *Gidroliz.i lesokhim.pron.* 12 no.3:22
'59. (MIRA 12:6)

1. Syavskiy lesokhimicheskiy kombinat.
(Tar oils)

KAURICHEV, I.S.; FEDOROV, Ye.A.; SHNABEL', I.A.

Applying continuous paper electrophoresis in separating humic acids.
Pochvovedenie no.10:31-36 '60. (MIRA 13:10)

1. Timiryazevskaya sel'skokhozyaystvennaya akademiya.
(Paper electrophoresis) (Humic acid)

FEDOROV, Ye.A.

Increased tar output from floating tar oils. Gidroliz. 1
lesokhim. prom. 14 no.7:29 '61. (MIRA 14:11)

1. Synvskiy lesokhimicheskiy kombinat.
(Synva-Tar)

FEDOROV, Ye.A.,

Rectification column with parts made of wood-filled plastics. Plast.-
massy no.10:65-66 '61. (MIRA 15:1)
(Distillation apparatus) (Plastics)

FEDOROV, Ye. A.

Rectification column with parts made of wood plastics. (Gidroliz.
i lesokhim.prom. 14 no.2:22 '61. (MIRA 14:3)

1. Syavskiy lesokhimicheskiy kombinat.
(Siava—Wood—Chemistry)
(Plastics)

FEDOROV, Ye.A.

Two efficiency promotion suggestions. *Gidroliz. i lesokhim.prom.* 14
no.4:22-23 '61. (MIRA 14:5)

1. *Syavskiy lesokhimicheskiy kombinat.*
(Wood—Chemistry)

REDIN, V. A.; FEDOROV, Ye. A.

Chronic choleperitoneum following an undiagnosed liver rupture
caused by blunt injury of the abdomen. Khirurgia 37 no.7:
133-134 J1 '61. (MIRA 15:4)

J. Iz khirurgicheskogo otdeleniya Balkashinskoy rayonnoy bol'nitsy
(glavnyy vrach V. A. Redin) Akmolinskoy oblasti.

(PERITONITIS) (LIVER--WOUNDS AND INJURIES)
(ABDOMEN--WOUNDS AND INJURIES)

FEDOROV, Ye.A.; REDIN, V.A.

Extrauterine pregnancy in the Balkhashin District Hospital of
Akmolinsk Province during 4 years (1956-1959). Akush.i gin.
no.4:106-107 '61. (MIRA 15 :5)

1. Iz Balkashinskoy rayonnoy bol'nitsy (glavnyy vrach V.A.
Redin).

(PREGNANCY, EXTRAUTERINE)

FEDOROV, Ye.A.

Collective-farm markets in Moscow. Gor.khoz.Mosk. 36
no.2:30-33 F '62. (MIRA 16:2)

1. Nachal'nik Upravleniya rynkami Glavnogo upravleniya
torgovley Moskovskogo gorodskogo ispolnite'l'nogo komiteta
Moskovskogo gorodskogo soveta deputatov trudyashchikhaya.
(Moscow—Markets)

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AUTHOR: Fedorova, T. A.; Tutochkina, L. T.; Uspenskaya, M. S.; Skurikhina, M. M.; Fedorov, Ye. A.

TITLE: Shifts in some metabolic indices in soviet cosmonauts

SOURCE: Konferentsiya po aviatsionnoy i kosmicheskoy meditsine, 1963. Aviatsionnaya i kosmicheskaya meditsina (Aviation and space medicine); materialy konferentsii. Moscow, 1963, 456-460

TOPIC TAGS: metabolic index, cosmonaut training, blood analysis, urine analysis, hydrocorticosteroid, biochemical testing, Dische-positive substance

ABSTRACT: Biochemical studies of the blood and urine of cosmonauts, conducted after training sessions and rest periods before space flight, and for several days following space flight, included the following: 1) refractometer determination of total blood serum protein; 2) determination of the relative protein fraction content of blood serum by paper electrophoresis; 3) concentration in the serum of low-molecular-weight acid mucoids; 4) study of the nonspecific cholinesterase activity in the blood serum; 5) determination of the amounts of Dische-positive substances present in the urine; 6) viscosimetric determination of urine deoxyribo-

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nuclease activity; 7) determination of the amount of free and bound 21-hydroxy-20-ketosteroids in the urine; 8) determination of the amount of mucoids present in the urine (after 5-day dialysis); and 9) determination of the amount of creatine and creatinine in the urine. In addition, ordinary clinical studies of peripheral blood and urine were made before and after flight. The most characteristic pre-flight blood serum composition change noted during training sessions was a slight increase in relative albumin and some decrease in Beta- and Gamma-globulin. This reaction is normally observed in athletes during training and contests and is connected with increased physical strain and emotional tension. Cosmonaut training occasionally produced still stronger effects (Nikolayev and Popovich, 1 Jun 62). During rest periods, serum protein composition and mucoid content usually returned to normal. After flight total protein and serum mucoid levels increased slightly in the first day after landing. No real change in cholinesterase activity was noted. Peripheral blood studies revealed no abnormality in Gagarin either before or after flight. Titov, Nikolayev, and Popovich displayed leukocytosis on the day of landing. In addition, Nikolayev and Popovich showed lymphopenia and a tendency to eosinopenia. These shifts which were of brief duration, are characteristic of the "stress" reaction. Preflight urinalysis showed no abnormalities. Postflight urinalysis showed turbidity, hyaline casts (8 to 15 in the preparation), and uric

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acid crystals in the urine of Nikolayev and Popovich. Protein traces and occasional erythrocytes and leukocytes were also found in the urine of Popovich. These were probably the result of reversible changes in the renal filter such as are sometimes observed following physical strain or strong emotion. Changes in urinary excretion of Dische-positive substances mostly failed to correlate with changes in the rate of urinary output. Urine 24-hr volumes, which before flight varied in the different cosmonauts from considerably below normal to somewhat above, increased by 25% to 75% in all cosmonauts after return from space flight, then returned to normal. Free hydrocorticosteroids were slightly increased by training sessions but returned to normal afterwards. After flight, free hydrocorticosteroids increased to 2.5 to 3.5 times the normal level. In Gagarin the increase was 10.7 times normal. Glucuronic acid bound steroids remained within normal limits except for Nikolayev, in whom they were somewhat increased. Steroid increase in the urine after space flight indicates functional stimulation of the adrenal cortex and may be regarded as an adaptive reaction of the body to various space-flight and landing factors. Return to normal even in the case (Gagarin) of a great increase indicates that the effects of these factors did not exceed the physiological capabilities of the adrenal glands. Mucoprotein increase during the training period is attributed to fatigue; it is normal under various circumstances, particularly heavy muscular labor.

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